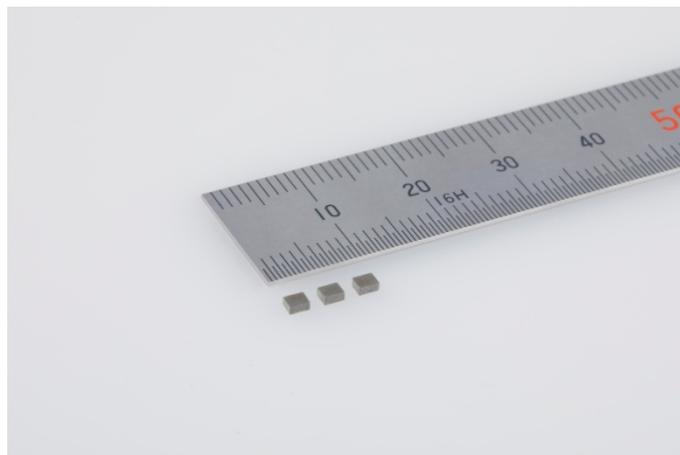


For Immediate Release

## TAIYO YUDEN Expands Its Product Lineup of ME Series Metal Power Inductor MCOIL™

*18% improvement in DC bias characteristics and 13% reduction in DC resistance compared with its conventional products*



TOKYO, July 17, 2018 – TAIYO YUDEN CO., LTD. announced today the commercialization of the ME series H-type "MEKK2016H" (2.0 x 1.6 x 1.0 mm, maximum height), in the metal wire-wound chip power inductor MCOIL™ ME series product family, featuring improved characteristics. This power inductor is ideal for choke coil applications and was developed for power supply circuits used in digital devices such as smartphones in response to the increasing trend toward more features and improved performance.

In comparison to our conventional product, MEKK2016TR47M (DC saturation allowable current 4.5 A, DC resistance 30 mΩ), the DC saturation allowable current has been improved by 18% to 5.3 A, and the DC resistance has been decreased by 13% to 26 mΩ. This helps create small and thin digital devices typified by smartphones with lower power consumption in response to the increasing trend toward more versatile features.

Production of the ME series H-type MEKK2016H will commence at our subsidiary company, FUKUSHIMA TAIYO YUDEN CO., LTD. (Date City, Fukushima Prefecture, Japan) in July 2018 at a rate of ten million units per month, with a sample price of 50 yen per unit.

### Technology Background

Small and thin mobile devices such as smartphones are increasingly using high-speed-driven multi-core application processors to simultaneously improve performance and efficiency. These processors must handle lower-voltage, higher-current signals and also have a power supply circuit for each core because such processors dynamically change the cores to be used in accordance with the load.

On the other hand, such devices require an ever-smaller footprint to make room for larger-capacity batteries. As a result, small and thin power inductors with low DC resistance that can supply high current are required for the choke coils used in power supply circuits.

To address this market need, TAIYO YUDEN has commercialized its metal power inductor MCOIL™ series, in which metal magnetic materials with superior DC bias characteristics are used. This time, MCOIL™ ME series H-type products, in which higher current and lower DC resistance have been achieved, have been added to the metal wire-wound chip power inductor MCOIL™ ME series.

We will continue to actively expand the product lineup and improve the performance of the metal power inductor MCOIL™ series.

\* "MCOIL" is a registered trademark or a trademark of TAIYO YUDEN CO., LTD. in Japan and other countries.

■Application

Choke coils application in power supply circuits used in digital devices such as smartphones

■The characteristics

Product name	Inductance [μH]	Inductance allowance	DC resistance [mΩ] max.	Rated current [A] max.	
				DC saturation allowable current	Temperature rise allowable current
MEKK2016HR47M	0.47	±20%	26	5.3	4.7
MEKK2016H1R0M	1.0		48	4.0	3.5
MEKK2016H2R2M	2.2		100	2.3	2.3